

IN THE CLAIMS

1. (Currently Amended) A digital filter device comprising:

one or more computing processors for generating input data strings;

an input data memory for storing the input data strings; and

a single digital filter for reading the input data strings out of the input data memory ~~in a predetermined order, said order having a separate timing than a data string generating timing;~~ to be filtered and for generating output data strings;

an output data memory for storing the output data strings generated by the digital filter;

a switch table for associating an address of the input data memory in which the input data strings are stored with an address of the output data memory in which the output data strings are stored; and

a switching controller for providing variable timings of reading the input data strings out of the input data memory based on the switch table and of writing the input data strings as the output data strings in the output data memory through the digital filter.

2. (Currently Amended) The digital filter device as claimed in claim 1, further comprising:

~~—an output data memory for storing the output data strings generated by the digital filter, and~~

a data processor for reading the output data strings stored in the output data memory in a predetermined order to be processed.

3. (Cancelled)

4. (Original) The digital filter device as claimed in claim 1, further comprising;

a filter memory for storing data-under-calculation upon filtering for a first input data string before filtering for a second input data string from filtering for the first input data string, in a

delay circuit included in the digital filter, and for restoring the data-under-calculation to the delay circuit when filtering the input data string subsequent to the first input data string is started.

5. (Original) The digital filter device as claimed in claim 1, further comprising;

one or more coefficient memories for storing a filter coefficient corresponding to each input data string of the digital filter,

a filter coefficient corresponding to an input data string to be filtered being set in the digital filter.

6-7. (Cancelled)